

Customer No. 24498  
Serial No. 10/566,493  
Reply to Office Action Dated 11/24/08

Atty. Docket No. PU030229

### LISTING OF CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) A method for operating a sequential color display system including a color changer and an imager, which operate in combination to sequentially illuminate at least one pixel with each of a set primary colors, comprising the steps of:

applying a control signal to the imager to cause the imager to illuminate the at least one pixel for each primary color at a brightness level in accordance with the control signal;

using light occurring during at least one first spoke, corresponding to a first interval when the color changer transitions from one primary color to another, when the at least one pixel has a brightness level above a first prescribed threshold for at least one primary color; and

altering the control signal when the light is used during such spoke to decrease brightness of the ~~at least one primary color in substantial time proximity to the occurrence of~~ primary color immediately before and the primary color immediately after the spoke to compensate for the brightness increase caused by using the light during such spoke.

2. (Cancelled)

3. (Currently Amended) The method according to claim 2 wherein the first ~~brightness~~ prescribed threshold differs for each primary color.

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4. (Previously Presented) The method according to claim 1 further comprising the step of using light occurring during at least one additional spoke, in addition to the light used during the at least one first spoke, when said at least one primary color has a brightness level above a second threshold.

5. (Currently Amended) The method according to claim 4 wherein the second brightness threshold differs for each primary color.

6. (Original) The method according to claim 1 wherein the step of applying the control signal includes applying a plurality of sequences of pulse width segments, each pulse width segment causing the imager to illuminate an associated pixel for each primary color at a brightness level in accordance with a total actuation of pulses within the pulse segment for such associated pixel.

7. (Currently Amended) A method for operating a sequential pulse width modulated display system having a color changer and an imager that operate in combination to sequentially illuminate at least one pixel for each of a set of primary colors, comprising the steps of:

applying a plurality of sequences of pulse width segments to the imager, each pulse width segment causing the imager to illuminate the at least one pixel for each primary color at a brightness level in accordance with the actuation state of pulses within the pulse segment for said at least one pixel;

using light occurring during at least one first spoke, corresponding to a first interval when the color changer transitions from one primary color to another, when said at least one pixel has a brightness for at least one primary color above a prescribed threshold; and

altering at least one sequence of pulse width segments when the light is used during the at least one first spoke to decrease brightness of the ~~at least one primary color in substantial time proximity to the occurrence of primary color~~ immediately before and the primary color immediately after the at least one first

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spoke to compensate for the brightness increase caused from using the light during the at least one first spoke.

8. (Previously Presented) The method according to claim 7 wherein the first brightness threshold differs for each primary color.

9. (Previously Presented) The method according to claim 7 further comprising the step of using the light occurring during at least one additional spoke, in addition to the light used during said at least one first spoke, when said at least one primary color has a brightness level above a second threshold.

10. (Currently Amended) The method according to claim 7 wherein the second brightness threshold differs for each primary color.

11. (Previously Presented) A method for operating a sequential pulse width modulated display system having a color changer which causes each of a set of primary colors to sequentially illuminate an imager which lights up each of a plurality of pixels for each primary color, comprising the steps of:

applying a plurality of sequences of pulse width segments to the imager, each pulse width segment causing the imager to illuminate each pixel for each primary color at a brightness level in accordance with the actuation state of pulses for each pixel within the pulse segment;

choosing at least one first spoke, corresponding to a first interval when the color changer transitions from one primary color to another primary color;

altering at least one sequence of pulse width segments above a prescribed pixel brightness level for at least one primary color to selectively increase pixel brightness for at least one primary color by using light during the at least one first spoke and to decrease pixel brightness during the pulse width segments occurring substantially immediately before and after the at least one first spoke in order to compensate for the brightness increase from the spoke light.

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12. (Previously Presented) The method according to claim 11 wherein the first brightness threshold differs for each primary color.

13. (Previously Presented) The method according to claim 11 further comprising the step of using the light occurring during at least one second spoke in addition to the light used during at least one first spoke when each primary color has a brightness level above a second threshold.

14. (Currently Amended) The method according to claim 13 wherein the second brightness threshold differs for each primary color.

15. (Currently Amended) A sequential color display system, comprising:

a light source;

an imager for directing light from the light source to selectively illuminate each of a plurality of pixels on a display screen;

a color changer for sequentially changing the color of the light illuminating each of the plurality of pixels, and

a controller for (a) applying a control signal to the imager to cause the imager to illuminate an associated pixel for each primary color at a brightness level in accordance with the control signal; (b) using light occurring during at least one first interval (spoke) in which the color changer transitions from one primary color to another when at least one primary color has a brightness level above a first prescribed threshold; and (c) altering the control signal when the light is used during the at least one first spoke to decrease the brightness of ~~at least one primary color in substantial time proximity to the occurrence of the primary color~~ immediately before and the primary color immediately after the at least one first spoke to compensate for the brightness increase caused from using the light during said at least one first spoke.

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16. (Cancelled)

17. (Previously Presented) The apparatus according to claim 15 wherein the first brightness threshold is different for each primary color.

18. (Previously Presented) The apparatus according to claim 15 wherein the controller makes use of the light occurring during at least one second spoke, in addition to the light used during at least one first spoke, when each primary color has a brightness level above a second threshold.

19. (Currently Amended) The apparatus according to claim 18 wherein the second brightness threshold is different for each primary color.

20. (Original) The apparatus according to claim 15 wherein the controller applies a plurality of sequences of pulse width segments, each pulse width segment causing the imager to illuminate an associated pixel for each primary color at a brightness level in accordance with the actuation state of pulses within the pulse segment for such associated pixel.